

How do you add text to ggplot2 plots?

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GGplot2 is a popular data visualization package in R that allows users to create high-quality plots. Adding text to GGplot2 plots is a simple process that begins by using the "geom_text()" function. This function allows users to specify the text, location, and other attributes such as font size, color, and angle. Additionally, users can also use the "labs()" function to add titles and labels to their plots. By combining these functions, users can easily add text elements to their GGplot2 plots, enhancing the visual appeal and clarity of their data.

Add Text to ggplot2 Plots (With Examples)

You can use the `annotate()` function to add text to plots in ggplot2.

This function uses the following basic syntax:

```
p +  
annotate("text", x=6, y=10, label= "hello")
```

where:

x, y: The (x, y) coordinates where the text should be placed.
label: The text to display.

The following examples show how to use this function in practice.

Example 1: Add One Text Element to ggplot2

The following code shows how to use `annotate()` to add one text element to a ggplot2 scatterplot:

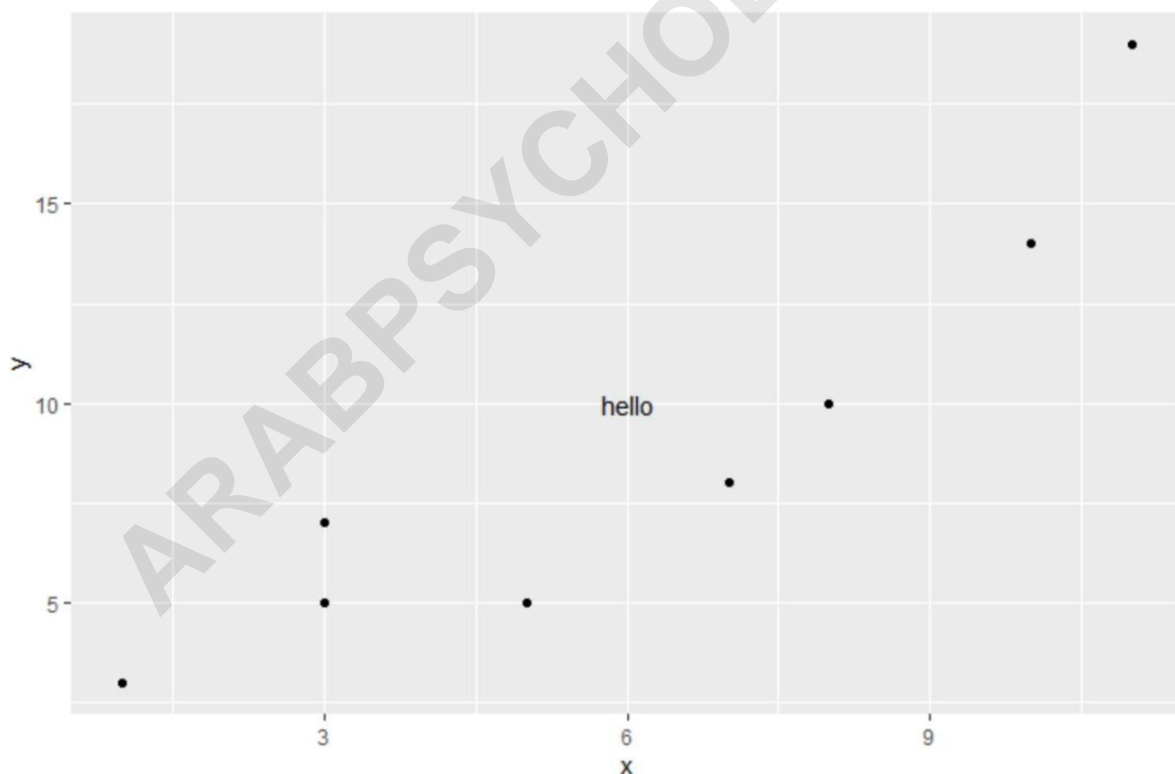
```
library(ggplot2)
```

```
#create data frame
```

```
df <- data.frame(x=c(1, 3, 3, 5, 7, 8, 10, 11),  
y=c(3, 5, 7, 5, 8, 10, 14, 19))
```

```
#create scatter plot with one text element
```

```
ggplot(df, aes(x=x, y=y)) +  
geom_point()  
annotate("text", x=6, y=10, label= "hello")
```



Notice that our text element has been added to the (x, y) coordinates of (6, 10) in the plot.

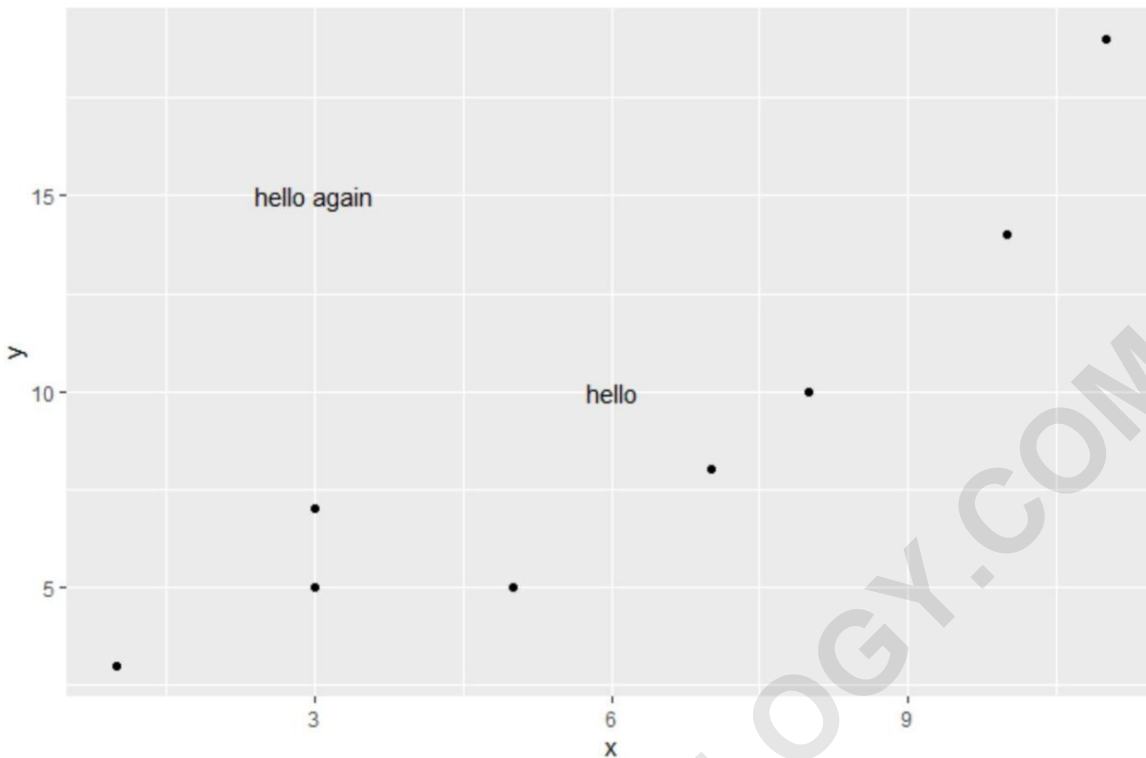
Example 2: Add Multiple Text Elements to ggplot2

The following code shows how to use `annotate()` to add multiple text elements to a ggplot2 scatterplot:

```
library(ggplot2)

#create data frame
df <- data.frame(x=c(1, 3, 3, 5, 7, 8, 10, 11),
y=c(3, 5, 7, 5, 8, 10, 14, 19))

#create scatter plot with one text element
ggplot(df, aes(x=x, y=y)) +
geom_point() +
annotate("text", x=6, y=10, label= "hello") +
annotate("text", x=3, y=15, label= "hello again")
```



Notice that two text elements have been added to the plot at the coordinates that we specified.

Example 3: Customize Text Elements in Plot

```
library(ggplot2)
```

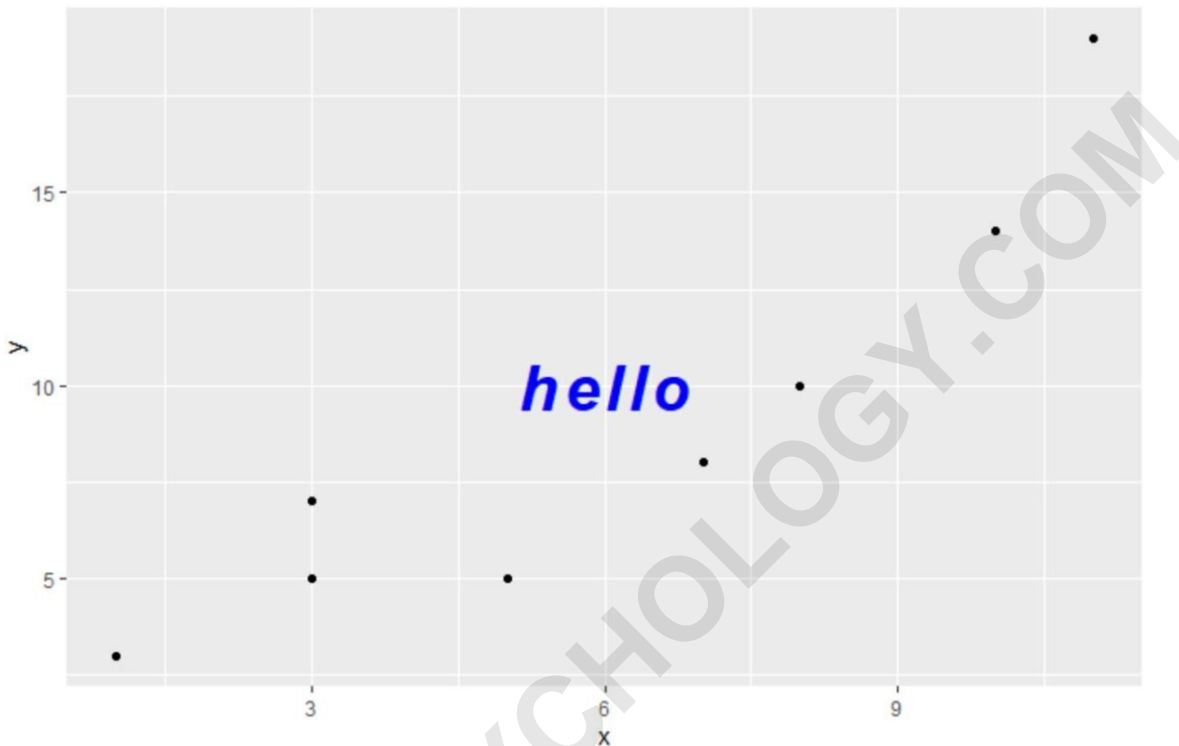
```
#create data frame
```

```
df <- data.frame(x=c(1, 3, 3, 5, 7, 8, 10, 11),  
y=c(3, 5, 7, 5, 8, 10, 14, 19))
```

```
#create scatter plot with custom text element
```

```
ggplot(df, aes(x=x, y=y)) +  
geom_point() +
```

```
annotate("text", x=6, y=10, label= "bolditalic(hello)",  
col="blue", size=10, parse=TRUE)
```



Notice that the one text element in the plot is now bold, italic, blue and has a size of 10.

Note: You can find the complete documentation for the `annotate()` function in `ggplot2` .

Additional Resources

The following tutorials explain how to perform other common tasks in R: